

ticed in this connection consisted in the fact that the structure of the mandibles after moulting was very different from that before it. The larva has been described and figured since in the *Trans. Amer. Entom. Soc.*, Vol. v [see Rec., No. 324].

§ 19. PROTRUSILE ABDOMINAL APPENDAGES OF MOTHS. MR. B. P. MANN read extracts from a letter of Fritz Müller to Chas. Darwin, published in *NATURE*, vol. x, No. 241, p. 102 (June 11, 1874), respecting the presence and character of abdominal appendages in several Glaucopid moths, similar to those described by Mr. H. K. Morrison in *PSYCHE*, vol. i, p. 21-22, as found in the male *Leucaretia aeraea*. (Febr. 12, 1875.)

MR. H. K. MORRISON showed a specimen of *Chamyris cerintha*, which has an appendage, whose use is problematical, at the base of the abdomen beneath. (April 9, 1875.)

## BIBLIOGRAPHICAL RECORD.

(Continued from page 16.)

The date of publication, here given in brackets [ ], marks the time at which the work was received by the Editor, unless an earlier date of publication is known to him. An asterisk \* before a title is the Recorder's certificate of accuracy of quotation. Corrections of errors and notices of omissions are solicited. — B. PICKMAN MANN.

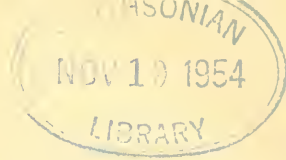
The **Bihang till Kongl. Svenska Vetenskaps-Akademiens Handlingar**, Band 2, contains Nos. 749 and 750.

\* 749. C. STÅL. Recherches sur le système des Blattaires. No. 13. pg. 18. [April, 1874.]

Attempt to make a more natural limitation and a more solid characterization of the tribes and genera in Brunner's system of Blattariae; discussion of the characters used. Describes synoptically four and indicates other "tribes" [with family names]; describes synoptically 36 (*Liosilpha*, *Cyrtilia*, *Molytria*, *Melanozosteria*, *Zonioploca*, *Cosmozosteria*, *Eurycotis*, *Homalosilpha*, *Phoetalia*, *Byrsotria*, *Blaptica* = 11 new) and mentions other genera.

\* 750. C. STÅL. Recherches sur le système des Phasmidés. No. 17. pg. 19. [March, 1875.]

A rational system of Phasmidæ has been lacking hitherto; an entirely new grouping, supposed to be natural, is proposed here. Describes synoptically 37 (*Clonaria*, *Echetus*, *Bostra*, *Clonistria*, *Phryganistria*, *Arrhidacus*, *Hoploclonia*, *Acanthoclonia*, *Orobia*, *Donusa* = 10 new) genera. Describes *Clonistria Bartholomæa* from St. Bartholomew Island, West Indies = 1 N. A. n. sp.



The **Bih. K. Svensk. Vet.-Akad. Handl.**, Band 3, Nos. 1-6, contains nothing on N. A. insects; No. 14, consists of No. 751.

\* 751. C. STÅL. Observations Orthoptérologiques. pg. 43. [1875.]

1. Sur une systématisation nouvelle des Phasmides. p. 3-21.

Gives in an abridged form the principal features of his system of Phasmidae [see Rec., No. 748: 3]; remarks upon the artificiality of previous systems.

2. Sur le système des Acridiides. p. 21-24.

Mentions the most important modifications which are to be made in the system of Acridiidae proposed in his "Recensio Orthopterorum" [see Rec., No. 748: 1]; Acridiidae cannot be classified by the length of their antennæ or of the antennal joints. List of genera which have an apical spine on each margin of the upper side of the posterior tibiæ, and of those which have this spine only on the outer margin.

3. Diagnoses d'Orthoptères nouveaux. p. 24-43.

Describes *Rubellia*, *Gyrtone*, *Charilaus* [Phymatidae]; *Munatia*, *Euthymia*, *Gergis*, *Hysia*, *Cratippus*, *Pezotettix nigrovittatus* from Mexico [Acridiidae]; *Lilaea*, *Methone* [Thrinchidae]; *Thericles*, *Erucius* [Mastacidae]; *Erianthus* [Choroetypidae]; *Diophanes*, *Diyllus* [Pseudophyllidae]; *Eppia* [Decticeidae] = 16 n. gen., 1 N. A. n. sp.; describes 40 n. spp. Distinguishes synoptically *Scopiorus*, *Cyrtophyllus* and *Diophanes* from the other genera of Pseudophyllidae.

The **Bih. K. Svensk. Vet.-Akad. Handl.**, Band 4, No. 5, consists of No. 752.

\* 752. C. STÅL. Observations Orthoptérologiques. 2. pg. 58. [1876.]

a. Les Genres des Acridiodées de la Faune Européenne. p. 3-35.

Criticism of previous systems; importance of the systematic characters taken from the form, position and direction of the temples; explanation of these characters; synopsis of the (9) subfamilies and (35) European genera of Acridioidea. Describes *Duronia* (n. subg. *Phlaeoba*), *Egnatius* (n. g. *Truxalidae*), and several (about 11 new) species.

b. Aperçu des Genres des Acridiodées de l'Amérique du Nord. p. 36-47.

Synopsis of 31 N. A. genera of Acridioidea. Describes *Diponthus* [Acridiidae], *Orphula* [Truxalidae] = 2 n. gen. describes several n. spp.

c. Sur *Anostostoma* et quelques Genres voisins. p. 47-53.

*Anostostoma* is a genus of Grylloidea, but some of the species which have been referred to it are *Locustina*; the difference between *Locustina* and

Grylloidea is expressed principally in the form of the anterior coxæ. Synopsis of 9 genera belonging to 4 subfamilies, related to Anostostoma; describes Mesomedes, Onosandrus = 2 n. gen. Anostostomidae; describes several new spp.

d. Diagnoses d'Orthoptères nouveaux. p. 53-58.

Describes Protomachus [Phymatidae]; Aristia, Mazaea [Acridiidae]; Arethaea [Phyllopteridae]; Psyra, Elbenia, Arnobia, Phygela, Furnia, *Amblycorypha Uhleri*, *A. parvipennis* [Phyllophoridae] = 9 n. gen., 2 Texan n. spp.; describes 8 n. spp.

The **Öfversigt af Kongl. Vetenskaps-Akademiens Förhandlingar**, Årg. xxx (1873), contains No. 753; Årg. xxxi (1874), contains nothing upon N. A. entomology.

\* 753. C. STÅL. Orthoptera nova. No. 4, p. 39-53. [Jan., 1876.]

Describes Acanthoplus, Trigonocorypha, Stilpnochloa, Philophyllia, Eurycorypha, Plangia, Amblycorypha, Ctenophlebia, Anaulacomera, Plagiopleura, Plagioptera, Seudderia, Pyrrhicia, Hormilia, Burgilis, Holo-chloa, Mirollia, Terpnistria [Phaneropteridae]; Phyllomimus, Scopiornis, Phyllostachys, Brisilis, Cocconotus, Leptotettix, Bliastes, Ischnomela, Liparoscelsis, *L. pallidispina* and *L. nigrispina* from Mexico, Trichotettix, Stenotettix, Moristus [Pseudophyllidae]; Oxyprora, Pyrgocorypha [Conocephalidae] = 32 n. gen., 2 N. A. n. spp. Locustina. Describes Monistria, Zonocerus, Aularches, Taphronota, Maura [Phymatidae]; *Truxalis acrtiodes*, from Mexico [Truxalidae]; Colpolopha, Elaeochloa, Procolpia, Alophonota, Ischinaerida, Oxyrrhepes [Acridiidae]; Coelopterna [Coelopteridae] = 12 n. gen., 1 N. A. n. sp. Acridiodea.

The **Öfvers. K. Vet.-Akad. Förh.**, Arg. xxxii (1875), contains Nos. 754 to 757.

\* 754.<sup>1</sup> ANTON STUXBERG. Nya nordamerikanska Lithobier. No. 2, p. 65-72. [Apr., 1876.]

Describes *Lithobius monticola*, *L. pusio*, *L. paradoxus*, *L. obesus*, *L. Kochii*, *L. megaloporus* from California, *L. eucnemis* from New York, *L. Saussurei* from Mexico = 8 n. spp.; gives synonymy of *Lamyctes fulvicornis* from New York.

\* 755.<sup>1</sup> A. STUXBERG. Genera et species Lithobioidarum. No. 3, p. 5-22. [Apr., 1876.]

Characterizes 6 (6 N. A.) (Eulithobius, Neolithobius, Pseudolithobius, Hemilithobius, Archilithobius = 5 new) subgenera of *Lithobius*, with reference to their relative rank and order of differentiation in time. Enumerates 109 (23 N. A.) spp. *Lithobius*, formed into 12 groups, 3 spp. *Henicops*, 2 (1 N. A.) spp. *Lamyctes*, in a table which shows the distribution of the species amongst 30 divisions of the earth's surface; another

<sup>1</sup> Record made with the assistance of Mr. William Holden.

table gives the percentage of species occurring in each of these divisions. Gives synonymy of 6 (3 N. A.) spp., and a list of 26 writings cited.

\* 756.<sup>1</sup> A. STUXBERG. Lithobioidæ Americæ Borealis. Öfversigt af Nord-Amerikas hittills kända Lithobiider. No. 3, p. 23-32. [Apr., 1876.]

Gives a descriptive list of the previous writings upon the subject, and a synonymical list, with habitats, of all the (24) known N. A. species of the family.

\* 757. O. M. REUTER. Capsinæ ex America boreali in Museo Holmiensi asservatæ. No. 9, p. 59-92. [Oct., 1876.]

Describes *Miris* (*Lobostethus*) *affinis*, *Trigonotylus pulcher*, *Callimiris*, *C. Uhleri*, *C. tarsalis*, *Trachelomiris*, *T. oculatus* [Miraria]; *Pallacocoris*, *P. suavis* [Miridiaria]; *Clivinema*, *C. villosa* [Clivinemaria]; *Callichila* [n? subg. *Resthenia*], *Resthenia atripennis*, *R. nigricollis*, *R. maculicollis*, *Once-rometopus*, *O. nigriclavus*, *O. ruber*, *Lomatopleura*, *L. caesar* [Loparia]; *Phytocoris eximius*, *Ph. brevisculus*, *Ph. tibialis*, *Ph. puella*, *Ph. pallidicornis*, *Neurocolpus*, *Compsoecocoris*, *C. annulicornis* [Phytocoraria]; *Lygus Belfragii*, *L. vitticollis*, *L. Carolinae*, *L. prasinus*, *L. fasciatus*, *L. convexicollis*, *Systratiotus americanus*, *Poeciloscytus basalis*, *Poecilocapsus* (g. & subg.), *Metriorrhynchus* (subg. *Poecilocapsus*), *P. (M.) affinis*, *P. (M.) marginalis*, *Callicapsus*, *C. histrio*, *Euarmosus*, *E. Sayi* [Capsaria]; *Sixeonotus*, *S. insignis*, *Cyrtocapsus* [Bryocoraria]; *Sericophanes*, *S. ocellatus*, *Semium*, *S. hirtum*, *Cyrtopeltocoris*, *C. albo-fasciatus*, *Trichia*, *T. punctulata*, *Engytatus*, *E. geniculatus*, *Hyaliodes*, *Parthenicus*, *P. psalliodes*, *Ilnacora* (g. & subg.), *I. (I.) divisa*, *Corinala* (subg. *Ilnacora*), *I. (C.) Siälü*, *Ceratocapsus*, *C. lutescens*, *C. punctulatus* [Cyllecoraria]; *Strongylotes*, *S. saliens*, *Rhinaeoa*, *Rh. forticornis*, *Psallus guttulosus*, *Episcopus*, *E. ornatus*, *Phoenicocoris pubescens*, *Plagiognathus grandis*, *Atomoscelis seriatus*, *Agalliastes suavis* [Plagiognatharia] = 28 n. gen., 50 n. spp. of Cimicidae, subf. Capsina; gives a synopsis of the (21) species of *Resthenia* known to the author; enumerates 67 species.

The **Annals of the Lyceum of Natural History** [of New York], vol. xi, as far as p. 154, contain Nos. 758 to 760.

\* 758. H. K. MORRISON. Notes on North American Lepidoptera. p. 91-104. [Feb., 1875.]

Describes *Edema Packardii*, *Acronyeta pudorata*, *Agrotis acclivis*, *A. montana*, *Mamestra curta*, *M. promulsa*, *Plusia laticlavata*, *Anarta membrosa*, *Eutricopis*, *E. nexilis*, *Telesilla vesca*, *Eucalyptra*, *E. bipuncta* = 2 n. gen., 11 n. spp.; re-describes *Edema*, *Scopelosoma devia*; notes on *Acronyeta brumosa*, *Adita chionanthi*, *Mamestra adjuncta*, *Plusia formosa*, *P. Hochenwarthi*, *P. parilis*, *Calocampa* spp.

<sup>1</sup> Record made with the assistance of Mr. William Holden.

\* 759. A. R. GROTE. On a New Species of *Anarta* and on an allied Genus, with a note on the Genus *Adita*. p. 107-109. [May, 1875.]

Describes *Anarta nivaria*, *Agrotiphila* = 1 n. g., 1 n. sp.; note on *Agrotiphila montana* and *Adita chionanthi*.

\* 760. A. R. GROTE. Note on a name in Entomology proposed by the late Coleman Townsend Robinson. p. 128-129. [May, 1875.]

Describes *Siparocera nobilis* n. sp. [Pyralides], type of the (new) genus.

\* 761. The **Twenty-Fifth Annual Report on the New York State Museum of Natural History**, by the Regents of the University of the State of New York [for the year 1871], contains the following. [Dated 1873; received Sept., 1874.]

a. Insects added to the Museum, p. 16. b. *Sporendonema muscae* (= *Empusa muscae*) grows spontaneously in the State, commonly, in autumn, causing the death of the flies it attacks, upon the dead bodies of which it is found (by C. H. Peck), p. 89.

\* 762. The **Twenty-Sixth Annu. Rep. N. Y. State Mus. Nat. Hist.** [for the year 1872], contains the following, and No. 763. [Dated 1874; received Nov., 1876.]

a. Report of work done upon the entomological collections (by James Hall), pp. 9, 12. b. *Stilbum ramosum* was found growing spontaneously at Sterling, in September, upon dead larvæ of insects buried in rotten wood (by C. H. Peck), p. 78.

\* 763. J. A. LINTNER. Entomological Contributions — No. III. p. 117-192, fig. 1-14. [Same as Rec., No. 26.]

I. On the Larva of *Eudryas unio* Hubn. and allied forms [description, food-plant (*Epilobium coloratum*), comparison with *E. grata*, *Alypia 8-maculata* and *Psychomorpha epimenis*], p. 117-124, fig. 1-5. II. Transformations of some Bombycidae [*Platysamia Cecropia*, *Callosamia Promethea*, *Actias Luna*], p. 125-128. III. Descriptions of the Larvæ of some Bombycidae [*Parorgyia parallela*, *Apatelodes angelica*, *Coelodasys unicornis* (fig. 6), *Platyserura furcilla* (fig. 7), *Dryocampa rubicunda*, *Tolype velleda*; food-plants, transformations], p. 129-134. IV. Descriptions of the Larvæ of some Noctuidæ [*Aeronycta americana*, *A. morula*, *Ceramica picta*, *Cucullia convexipennis*, *C. asteroides*, *Catocala* sp.; food-plants, transformations], p. 135-141. V. Notes on some New York Bombycidae [*Callimorpha Leontii*, *Arctia Arge*, *Spilosoma virginica*, *S. latipennis* (re-described), *Euchaetes oregonensis*, *E. collaris*, *Halisidota caryae*, *Orgyia leucostigma*, *Empretia stimulea*, *Phobetron pithecium*, *Lithacodes fasciola*, *Nadata gibbosa* (fig. 8), *Notodontia* sp. (fig. 9, 10), *Edema albifrons*, *Cerura borealis* (fig.

11), *Telea Polyphemus*, *Actias Luna*, *Hemileuca Maia*, *Gastropacha americana*, *Clisiocampa americana*, *Ctenucha virginica*, *Scepsis fulvicollis*; food-plants; descriptions of larvæ, cocoons *et al.*; biographies; inappropriate names; association of larvæ of different species; occasional abundance of usually rare species], p. 142-156. VI. Notes on some New York Noctuidæ, etc. [*Diptera deridens* (fig. 12), *Acronycta americana*, *A. hastulifera*, *A. oblinata*, *Agrotis tricolor* n. sp., *Hadena lignicolor*, *H. adjuncta*, *Cucullia florea* (re-described), ? *Chariclea exprimens*, *Chamyris cerintha*, *Plusia baluca*, *P. aeroides*, *Scoliopteryx libatrix*, *Catocala parta*; *Mesocraphe stramentalis*; *Nematocampa filamentaria*, *Ennomos magnaria*, *Amphidasy cognataria*, *Abrazas ribearia*; food-plants; descriptions of larvæ, cocoons *et al.*; biographies; synonymy of *Agrotis subgothica*, *A. tricolor* and *A. herilis*; notes on the seasons of 1858 and 1859 (comparative abundance of various Lepidoptera)], p. 157-167. VII. Descriptions of new species of *Cucullia* [*C. Speyeri* (fig. 13, 14), *C. serraticornis*; comparative descriptions of the "orbicular" spot in 11 other species of *Cucullia*; some synonymy in the genus; list of the 7 N. A. spp.], p. 168-176. VIII. Observation of some New York Rhopalocera for the year 1871 [calendar of 46 spp., until July 7], p. 177-178. IX. Dates of Collection of some New York Heterocera for the year 1872 [calendar of 196 spp. for 1872 and prior], p. 179-184. X. Description of a convenient Insect Case [from the Fifth Annual Report on the Insects of Missouri, 1873] (by J. A. Lintner), p. 185-188, fig. Index, p. 189-192.

\* 764. The **Nat. Can.** [see Rec., Nos. 248-254], vol. vii, contains the following, and Nos. 765 to 776.

a. A new silkworm has been found in Turdistan [? Turkistan], p. 32. b. Notice of Croteh's Check List [see Rec., No. 43] [objections to the changes in nomenclature proposed in the List (see Rec., No. 433)], p. 61-62; of the Rapport du Ministre de l'Agriculture pour 1874 [see Rec., No. 788], p. 63; of Candèze's Les Moyens d'Attaque et de Défense chez les Insectes [Bruxelles, 8vo. pg. 32], p. 92-93; of the Report of the Entom. Soc. Ontar. for 1874 [see Rec., Nos. 626-638], p. 121; of Grote's Check List of Noctuidæ [see Rec., No. 345], p. 378; of Heutz's Spiders of the United States [see Rec., No. 790], p. 378. c. Faune Entomologique du Canada [the part already printed (360 pages) delivered to subscribers on demand], p. 94. d. Letter to Dr. Migneault [delicacy and originality of form of *Tingis arcuata*], p. 95-96. d. Obituary notice of Francis Walker (from Petites Nouvelles Entomologiques), p. 184. e. Quelques zéros d'omis [the order Diptera comprises much more than 20,000 to 25,000 species], p. 192. f. *Attacus polyphemus* found in St. Maurice Co., Quebec, p. 377-378.

\* 765. L. PROVANCHER. Les Ichneumonides de Québec. [Cont. from Rec., No. 249.] pp. 20-26 [Feb., 1875], 48-53 [March], 74-84 [March], 109-121 [May], 138-149 [June], 175-183 [July], 263-274 [Sept.], 309-317 [Nov.], 328-333 [Dec., 1875].



Gives synoptical tables to distinguish 71 species of Ichneumon, 10 Ischnus, 1 Stilpnus, 9 Mesoleptus, 14 Tryphon, 2 Alomya, 5 Exochus, 2 Cteniscus of the Quebec fauna; enumerates 114 species; describes *Ichneumon pilosulus*, *I. mellicoxus*, *I. calcaratus*, *I. stadaconensis*, *I. varipes*, *I. vagans*, *I. cinctipes*, *I. signatipes*, *I. bifasciatus*, *I. indistinctus*, *I. aequalis* ["*æqualis*"], *I. placidus*, *I. lobatus*, *I. quebecensis*, *I. lacrymans*, *I. scutellatus*, *I. nitidus*, *I. erythropygus* ["*erythropygus*"], *I. fortis*, *I. hesitans*, *I. marianapolitanensis*, *I. mucronatus*, *I. lineolatus*, *I. caudatus*, *I. humilis*, *I. inflatus*, *I. cervulus*, *I. decoratus*, *Ischnus pyriformis*, *I. lentus*, *I. ruficornis*, *I. placidus*, *I. exilis*, *I. scutellatus*, *I. impressus*, *I. parvus*, *Stilpnus Canadensis*, *Mesoleptus micans*, *M. depressus*, *M. maculosus*, *M. variabilis*, *Tryphon canaliculatus*, *T. humeralis*, *T. canadensis*, *T. laurentianus*, *T. sanguineus*, *T. tardus*, *T. annulatus*, *T. moyeni*, *Alomya pulchra*, *A. abdominalis*, *Cteniscus concolor* = 52 n. spp.

Addenda et Corrigenda to former articles: gives synoptical tables to distinguish (6) species of Polysphincta, (14) Bassus, (17) Linneria, (28) Cryptus, (30) Phygadeuon, (14) Mesostenus, (2) Nematopoda, (18) Mesoleptus, (20) Tryphon, (5) Atractodes, of the Quebec fauna, comprising an addition of 57 species to the list; cites in addition 34 species; describes *Polysphincta rufospectus*, *P. cingulatus*, *Arenetra quebecensis*, *Orthocentrus canadensis*, *Bassus fuscitarsus*, *B. pulchripes*, *Leptobatus canadensis*, *Campoplex luctuosus*, *Linneria excavata*, *L. ruficoxa*, *L. plena*, *L. ruficornis*, *L. pallipes*, *L. busilaris*, *L. sericea*, *L. clavata*, *L. sessilis*, *Cryptus cinctus*, *C. brevicornis*, *C. ruficoxus*, *Phygadeuon maculatus*, *Ph. rectus*, *Ph. insignis*, *Ph. annulatus*, *Ph. ruficornis*, *Ph. 4-carinatus*, *Ph. ovalis*, *Ph. apicatus*, *Ph. rufipes*, *Ph. ornatus*, *Ph. nigrovariegatus*, *Mesostenus rufipes*, *M. pallipes*, *M. nigricornis*, *M. sericeus*, *M. annulatus*, *M. tarsatus*, *M. albicoxus*, *M. ruficoxus*, *M. apicalis*, *Nematopodius canadensis*, *N. coxatus*, *Baryceros rhopalocerus*, *Mesoleptus incompletus*, *M. longipes*, *Posocentrus*, *P. Huardi*, *Tryphon clypealis*, *T. dufresnei*, *T. excavatus*, *Polysphincta pleuralis*, *Ecthrus caudatus*, *Cryptus caudatus*, *C. occidentalis*, *Phygadeuon mellinus*, *Hemiteles mandibularis*, *Catocentrus dilatatus*, *Mesoleptus erectus*, *Orthocentrus pleuralis*, *Westwoodia fumipennis*, *Podogaster radiolatus*, *Pezomachus quebecensis*, *Plectiscus pleuralis*, *Megastylus politus*, *Phytodietus gracilis*, *Atractodes mellipes*, *A. fusiformis* = 1 n. g., 66 n. spp.; *Ephialtes manifestatus* Linn. (vol. v, p. 449) should read *E. tuberculaus* Fourcroy.

\* 766. F. X. BÉLANGER. *Microlépidoptères*. p. 46-48. [March, 1875.]

Remarks upon habits of Tineidae; means of protecting woollen stuffs and furs from their ravages; list of the (20) species in the collection of the museum of the Université Laval; 12 species are mentioned by name as new.

\* 767. L. PROVANCHER. *La Mégachile guenille*. p. 58-61. [March, 1875.]

Habits of *Megachile centunculus*.

\* 768. L. PROVANCHER. Chasse aux Insectes nuisibles. p. 171-173. [July, 1875.]

Insects are best attacked *unguibus et rostro*; *Caloptenus spretus* is to be attacked directly in Le Sueur Co., Minnesota, in 1875.

\* 769. L. PROVANCHER. La Doriphore à 10 lignes ou Chrysomèle de la Pomme de Terre. p. 173-175, fig. 19. [July, 1875.]

*Doryphora 10-lineata* has reached Toronto, but has not reached Quebec, statements to the contrary notwithstanding; the climate of Quebec may be too rigorous for it; premiums should be offered for its destruction; precautions taken against it in Europe are superfluous.

\* 770. L. PROVANCHER. Une Excursion à St. Hyacinthe. pp. 205-219 [Aug., 1875], 232-247 [Sept., 1875].

Annotated list of 31 Hym., 5 Lep., 6 Dip., 20 Col., 4 Hom., 9 Het., 4 Orth., 2 Ps.-Neur., 5 Neur., found at or near St. Hyacinthe, some new to the locality, especially *Annophila gracilis*, *Attacus luna*, *Doryphora 10-lineata*, *Cicada rimosa*, others new to science [see Rec., No. 771].

\* 771. L. PROVANCHER. Description de Plusieurs Insectes nouveaux. p. 247-251. [Sept., 1875.]

Describes *Mantispa Burquei*, *Aeschna Yamaskanensis*, *Xorides canadensis*, *Mesostenus rufipes*, *Ichneumon Clopini*, *Ischnus variegatus*, *Mesoleptus Sancti-Hyacinthi* = 7 n. spp., taken upon the excursion cited in Rec., No. 770.

\* 772. L. PROVANCHER. Insecte nommé. p. 288. [Oct., 1875.]

Re-describes *Cicada dorsata*; gives a list of the (8) species in the author's collection.

\* 773. L. PROVANCHER. Clef Generale aux Ichneumonides de Québec, jusqu'à ce jour connus. p. 333-353. [Dec., 1875.]

Nomenclature of veins and cells of wings; synoptical table to distinguish the (58) genera of the Quebec fauna already known, comprising 386 species, 239 of which have been described as new in vols v-vii of LE NATURALISTE CANADIEN, and 147 of which were previously described; diagnoses of each of the genera are given, with references to the volumes of NAT. CAN. in which the species are treated of.

\* 774. L. PROVANCHER. Identification des Sujets d'Histoire Naturelle. p. 354-357. [Dec., 1875.]

Sketch of difficulties experienced in identifying described species, owing to the dispersion of the descriptions; recommendation that descriptions should have to be published in certain publications in order to acquire a claim to recognition.



\* 775. L. PROVANCHER. Association Américaine pour l'avancement de la science. p. 359-360. [Dec., 1875.]

Notice of meeting of Entom. Club A. A. A. S., at Buffalo, in 1875; locusts as food for man.

\* 776. L. PROVANCHER. Les Urocerides de Québec. p. 368-376, fig. 31. [Jan., 1876.]

Characterizes the family; gives a synoptical table to distinguish the (5) genera of the Quebec fauna, which are characterized also; enumerates and describes 13 species, including *Xiphidria canadensis*, *Xiphidion*, *X. canadensis*, *Phylloecus bicinctus* = 1 n. g., 3 n. spp.

\* 777. The **Nat. Can.**, vol. viii, contains the following, and Nos. 778 to 787.

a. Appointment of J. T. Humphreys as State Entomologist of Georgia, p. 94. b. Insects cause at least \$200,000,000 of damage per annum [where?], p. 95. c. Occurrence of *Limacodes pithecium* at Lavaltrie, Berthier Co., Quebec; *Gordius aquaticus* parasitic on *Gryllus*, p. 339-341.

\* 778. L. PROVANCHER. Petite Faune Entomologique du Canada. — Les Orthoptères [corr.], Orthoptera. pp. 13-26, fig. 1-2 [Feb., 1876], 52-62, fig. 3 [Feb.], 72-81, fig. 5-8 [March], 106-116, fig. 11-13 [April], 134-143 [May, 1876].

Characters and peculiarities of the order and families of Orthoptera; about 6500 species are known, of which about 118 are North American; distinguishes synoptically 6 families, 18 genera, 37 species; describes the species; *Caloptenus sanguinolentus*, *C. parvus*, *Acridium rugosum*, *Chloëaltis canadensis* = 4 n. spp. Describes the stridulating organs of *Gryllus*; *Gordius aquaticus* parasitic on *Gryllus*; use of Acrididae as food.

\* 779. L. PROVANCHER. Fréquence et Disparition des Insectes. p. 30-32. [Feb., 1876.]

Fertility of insects; natural limitations to their increase; periodicity of their appearance. List of insects particularly abundant in 1875 at Cap Rouge: *Chrysomela elegans* on *Bidens cernua* and Dahlia; *Entilia sinuata* on Dahlia; *Eysarchoris carnifex* and *Epicauta cinerea* on Leguminosae; *Pentatoma juniperi* on *Sonchus* ["laitron"]; and 6 others.

\* 780. L. PROVANCHER. Étude de l'Histoire Naturelle. Lecture faite à l'Institut Canadien de Québec, le 13 Janvier 1876. p. 33-52. [Feb., 1876.]

Enumeration of (French) vulgar names given to insects; economic importance of insects. [For correction: few of the United States employ a salaried entomologist; Dr. Fitch's labors were estimated at \$50,000 per annum. *B. P. M.*]